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Docket No.

247860US55CONT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF:

David J. STUCKY, et al.

SERIAL NO: New U.S. Application

FILED:

Herwtih

FOR:

FOAMED POLYMER-FIBER COMPOSITE

# **INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS ALEXANDRIA, VIRGINIA 22313

SIR

Applicant(s) wish to disclose the following information.

#### REFERENCES

- The applicant(s) wish to make of record the references listed on the attached form PTO-1449 were mentioned in Parent Application, Serial No. 09/709,527 filed November 3, 2000.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

#### RELATED CASES

- Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

#### **CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

#### **DEPOSIT ACCOUNT**

Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND, MAJER & NEUSTADT, P.C.

Jean-Paul Lavalleve

Registration No. 31,451

Customer Number

22850

Tel. (703) 413-3000 Fax. (703) 413-2220 (OSMMN 05/03)

Daniel J. Pereira, Ph.D. Registration No. 45,518 Docket No.

247860US55CONT

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Daniel J. Pereira, Ph.D. Registration No. 45,518

| Form PTO 1449<br>(Modified) |       |   |                               | ATTY DOCKET NO. 247860US55CONT  |                              | SERIAL NO.<br>NEW U.S. APPL.                     |                               |  |  |
|-----------------------------|-------|---|-------------------------------|---|------------------------------|--|-------------------------------|--|--|
| •                           |       |   |                               | APPLICANT   |                              | : : :  |                               |  |  |
| LIST OF I                   | REFER | RENCES CITED BY APPL                            | ICANT                         |   | KY David                     | et al.   | :                             |  |  |
|                             |       |   |                               | FILING DATE  Herewith   |                              | GROUP  | ÷                             |  |  |
|                             |       |   | :                             | J.S. PATENT DOCUMENTS   | :                            |  | :                             |  |  |
| EXAMINER<br>INITIAL         | ·     | DOCUMENT<br>NUMBER                              | DATE                          | NAME  | AME CLASS                    |  | FILING DATE<br>IF APPROPRIATE |  |  |
|                             | AA    | 4,491,553                                       | 01/01/85                      | Yamada et al.   |                              |  |                               |  |  |
|                             | AB    | 5,847,016                                       | 12/08/98                      | Cope  |                              |  |                               |  |  |
|                             | AC    | 5,866,264                                       | 02/02/99                      | Zehner et al.   | ;                            |  |                               |  |  |
|                             | AD    | 2,188,396                                       | 01/30/40                      | Semon   |                              |  |                               |  |  |
|                             | AE    | 2,489,373                                       | 11/29/49                      | Gilman  | · ·                          |  |                               |  |  |
|                             | AF    | 2,519,442                                       | 08/22/50                      | DeLorme et al.  |                              |  | :                             |  |  |
|                             | AG    | 2,935,763                                       | 05/10/60                      | Newman et al.   |                              |  | : i                           |  |  |
|                             | AH    | 3,287,480                                       | 11/22/66                      | Wechsler et al.   |                              |  |                               |  |  |
|                             | Al    | 3,562,373                                       | 02/09/71                      | Logrippo  |                              |  |                               |  |  |
|                             | AJ    | 3,645,939                                       | 02/29/72                      | Gaylord   |                              |  |                               |  |  |
|                             | AK    | 3,864,201                                       | 02/04/75                      | Susuki et al.   |                              |  |                               |  |  |
|                             | AL    | 3,867,493                                       | 02/18/75                      | Seki  |                              |  |                               |  |  |
|                             | AM    | 3,878,143                                       | 04/15/75                      | Baumann et al.  |                              | :  |                               |  |  |
|                             | AN    | 3,879,505                                       |                               | Boutillier et al.   | <del></del> -                | ii   |                               |  |  |
|                             |       |   | <u> </u>                      | REIGN PATENT DOCUMENTS  |                              | · · · · · · · · · · · · · · · · · · ·            |                               |  |  |
|                             |       | DOCUMENT<br>NUMBER                              | DATE                          | COUNTRY   |                              | YES  | TRANSLATION NO                |  |  |
|                             | AO    | 3 801 574                                       | 08/03/89                      | Germany   |                              |  | X                             |  |  |
|                             | AP    | 2 365 017                                       | 04/14/78                      | France  |                              |  | ×                             |  |  |
|                             | AQ    | WO 90/08020                                     | 07/26/90                      | WIPO-PCT  |                              | ×  |                               |  |  |
|                             | AR    | 2 036 148                                       | 06/25/80                      | Great Britain   |                              | ×  |                               |  |  |
| <del></del>                 | AS    | 0 586 211                                       | 02/19/97                      | Europe  |                              | Х  |                               |  |  |
|                             | AT    | 0 586 212                                       | 03/09/94                      | Europe  |                              | ×  |                               |  |  |
|                             | AU    | 0 586 213                                       | 03/09/94                      |   |                              | ×  |                               |  |  |
|                             | AV    | 43 07 323                                       | 04/15/94                      | Germany   |                              | <del>                                     </del> | х                             |  |  |
|                             |       | <u> </u>  |                               | Including Author, Title, Date, Pertin   | ent Pages                    | etc.)  |                               |  |  |
|                             | Ι     |   |                               | ng, Machine Design; pp. 621-622, June   |                              |  |                               |  |  |
|                             | AW    | l como Basico en a cong                         |                               |   |                              |  |                               |  |  |
|                             |       |   | 10: 1                         | 4.4   | balaau B                     | alationahina                                     | for Microcollular             |  |  |
|                             | AX    | Polymer Engineering an<br>Foamed PCV/Wood Fibe  | d Science, N<br>er Composit   | Natuana et al., "Processing and Cell Mes," Volume 31, Number 7, July 1997,  | pages 1137                   | elationships<br>-1147.                           | Tor Microcendial              |  |  |
|                             | AY    | Laurent Matuana-Malan<br>Composites: Processing | da, Chul B. I<br>g and Cell M | Park and John J. Balatinecz, "Production or phology Relationship, ANTEC 96, per | on of Microc<br>gs. 1900-190 | ellular Foan<br>)7                               | ned PVC/Wood Fibre            |  |  |
|                             | AZ    | L. Matuana-Malanda, C. Composites, Journal of   | B. Park and<br>Cellular Plas  | J.J. Balatinecz, "Characterization of N<br>tics, Volume 32 - September 1996, pg                                     | licrocellular<br>is. 449-469 | Foamed PV  | C/Cellulsic-Fibre             |  |  |
| Examiner                    | -     |   |                               |   | Date Co                      | nsidered   |                               |  |  |
| <del></del>                 |       |   |                               | t citation is in conformance with MPEF  |                              |  |                               |  |  |

ATTY DOCKET NO. SERIAL NO. U.S. DEPARTMENT OF COMMERCE Form PTO 1449 (Modified) NEW U.S. APPL. PATENT AND TRADEMARK OFFICE 247860US55CONT -APPLICANT LIST OF REFERENCES CITED BY APPLICANT STUCKY David et al. **GROUP FILING DATE** Herewith **U.S. PATENT DOCUMENTS FILING DATE SUB EXAMINER DOCUMENT CLASS** NAME DATE IF APPROPRIATE CLASS NUMBER INITIAL 11/25/75 Johnson 3,922,328 03/09/76 Hamed. BB 3,943,079 3,954,555 05/04/76 Kole BC 05/11/76 Pringle 3,956,541 BD 4,012,348 03/15/77 Chelland et al. BE 04/05/77 Pringle 4,016,232 BF Pringle 04/05/77 4,016,233 BG 04/19/77 Baker вн 4,018,722 06/14/77 Daunheimer ВІ 4,029,831 BJ 4.045,603 08/30/77 Smith Goettler et al. 11/01/77 4,056,591 BK 01/31/78 Broyde et al. 4,071,479 01/31/78 Gaylord вм 4.071,494 06/27/78 Pringle BN 4,097,648 **FOREIGN PATENT DOCUMENTS TRANSLATION** DOCUMENT COUNTRY DATE NO YES NUMBER Х 03/16/83 Great Britain 2 104 903 BO Х 03/09/94 Europe BP 0 586 211 Х Great Britain 08/19/87 BQ 2 186 655 X BR 2 171 953 09/10/86 **Great Britain** 12/05/75 France BS 2 270 311 Х 04/14/78 France 2 365 019 ВΤ Х 08/01/80 France 2 445 885 BU X 11/22/85 France ΒV 2 564 374 OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.) "Paraloid® Additivies for PVC from Rohm and Haas," Product Update, "Paraloid K400 All-Acrylic Modifier for Cellular Vinyl Products." ©1995 Rohm and Haas Company, Philadelphia, Pa. BW "Suppliers team to expand foam coex into sheet, profiles," from Technology News, Plastics World, Oct. 1996. BX John R. Patterson and James L. Souder, "A More Efficient Processing Aid for Foamed Vinyl," a reprint from Resin Review, BY Volume XLV, Number 1, pages 1-8. "Rigid Vinyl Foam Applications," Rohm and Haas. ΒZ **Date Considered** Examiner \*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| Form PTO 1449<br>(Modified) |             | U.S. DEPARTMENT OF PATENT AND TRADEM              |                                | ATTY DOCKET NO.<br>247860US55CONT   |                           | SERIAL NO           | O.<br>U.S. APPL.                      |
|-----------------------------|-------------|---|--------------------------------|---|---------------------------|---------------------|---------------------------------------|
|                             | .•          |   |                                | APPLICANT   |                           | MEW                 | J.J. RIEL.                            |
| LIST OF                     | REFEF       | RENCES CITED BY APPL                              | ICANT                          |   | (Y David                  | et al.              |                                       |
|                             |             | •   |                                | FILING DATE   |                           | GROUP               |                                       |
| <u> </u>                    |             |   |                                | Herewith  |                           | <u> </u>            |                                       |
|                             |             |   |                                | U.S. PATENT DOCUMENTS   |                           | ·.                  |                                       |
| EXAMINER<br>INITIAL         |             | DOCUMENT<br>NUMBER                                | DATE                           | NAME  | CLASS                     | SUB<br>CLASS        | FILING DATE<br>IF APPROPRIATE         |
| ```                         | CA          | 4,102,106   | 07/25/78                       | Golder et al.   |                           |                     |                                       |
|                             | СВ          | 4,107,110   | 08/15/78                       | Lachowicz et al.  |                           |                     |                                       |
|                             | СС          | 4,145,389   | 03/20/79                       | Smith   |                           |                     | · .                                   |
|                             | CD          | 4,157,415   | 06/05/79                       | Lindenberg  |                           | <u> </u>            |                                       |
|                             | CE          | 4,168,251   | 09/18/79                       | Schinzel et al.   |                           | $\coprod$           |                                       |
|                             | CF          | 4,178,411   | 12/11/79                       | Cole et al.   |                           | $\Box$              |                                       |
|                             | CG          | 4,181,764   | 01/01/80                       | Totten  |                           | $\coprod$           |                                       |
|                             | СН          | 4,187,352   | 02/05/80                       | <u> </u>  |                           | <u> </u>            |                                       |
|                             | CI          | 4,191,798   | 03/04/80                       |   |                           |                     |                                       |
| ·                           | CJ          | 4,203,876   | 05/20/80                       | Dereppe et al.  |                           | MAS                 |                                       |
|                             | СК          | 4,228,116   | 10/14/80                       | Colombo et al.  |                           |                     |                                       |
|                             | CL          | 4,239,679   | 12/16/80                       | Rolls et al.  |                           | $\Box$              | ÷                                     |
|                             | СМ          | 4,241,133   | 12/23/80                       | Lund et al.   |                           |                     |                                       |
|                             | CN          | 4,244,903   | 01/13/81                       | Schnause  |                           |                     |                                       |
|                             |             |   | FO                             | REIGN PATENT DOCUMENTS  |                           |                     |                                       |
|                             |             | DOCUMENT<br>NUMBER                                | DATE                           | COUNTRY   |                           | YES                 | TRANSLATION NO                        |
|                             | со          | 2 042 176   | 04/22/71                       | Germany   |                           | :                   | Х                                     |
|                             | СР          | 23 44 101   | 03/06/75                       | Germany   |                           |                     | X                                     |
| <u> </u>                    | cq          | 58-179242   | 10/20/83                       | Japan   |                           | :                   | X                                     |
|                             | CR          | 60-82319  | 05/10/85                       | Japan   | :                         |                     | ×                                     |
|                             | cs          | 63-139946   | 06/11/88                       | Japan   |                           | : 1                 | Х                                     |
|                             | СТ          | 2-3280512   | 02/02/90                       | Japan   |                           |                     | X                                     |
|                             | CU          | 1 443 194   | 07/21/76                       | Germany   |                           | X                   |                                       |
|                             | CV          | -   |                                |   |                           | ]:                  | est ve Ve t                           |
|                             |             | OTHER REF   | ERENCES (                      | Including Author, Title, Date, Pertine  | nt Pages.                 | etc.)               | · · · · · · · · · · · · · · · · · · · |
|                             | cw          |   |                                | ting and Blowing Agent," Reedy Interna  |                           |                     | ecification Sheet                     |
|                             | сх          | "Measuring Performance                            | Improveme                      | ents with SAFOAM® in Foam Extrusion   | Application               | ıs," Reedy lı       | nternational Corporation              |
|                             | CY          | "Celogen Foaming Agen                             | ts, CELOGE                     | N® AZRV" Product Information from U   | niroyal Che               | emical              |                                       |
| ,                           | cz          | Laurent M. Matuana et a<br>Composites,* Polymer E | II., "Processi<br>ngineering a | ng and Cell Morphology Relationships f<br>and Science, Jul. 1997, vol. 37, No. 7, p | for Microce<br>p. 1137-11 | Ilular Foamı<br>47. | ed PVC/Wood-Fiber                     |
| Examiner                    |             |   |                                |   | Date Co                   | nsidered            |                                       |
| *Examiner: In               | itial if re | eference is considered, w                         | hether or no                   | t citation is in conformance with MPEP n with next communication to applicant.      | 609; Draw                 | line through        | citation if not in                    |
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| Form PTO 1449             |               | U.S. DEPARTMENT OF        | COMMERCE   | ATTY DOCKET NO.  |                | i            | SERIAL NO.                            |  |  |  |
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| (Modified)                |               | PATENT AND TRADEM         | ARK OFFICE                                       | 247860US55CONT   | ·              | NEW U        | .S. APPL.                             |  |  |  |
| LIST OF F                 | REFER         | RENCES CITED BY APPL      | ICANT  | APPLICANT STUCK  | (Y David       | et al.       |                                       |  |  |  |
|                           |               |                           |  | FILING DATE  Herewith  |                | GROUP        |                                       |  |  |  |
|                           |               | ٠.                        |  | U.S. PATENT DOCUMENTS  |                |              |                                       |  |  |  |
| EXAMINER<br>INITIAL       |               | DOCUMENT<br>NUMBER        | DATE   | NAME   | CLASS          | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE         |  |  |  |
|                           | ĎΑ            | 4,248,743                 | 02/03/81   | Goettler   |                | 1            |                                       |  |  |  |
|                           |               | 4,250,222                 | 02/10/81   | Mavel et al.   | <u> </u>       |              |                                       |  |  |  |
|                           | $\overline{}$ | 4,263,184                 |  | Leo et al.   | 1              |              |                                       |  |  |  |
|                           | DD            | 4,263,196                 | 04/21/81   | Schumacher et al.  | $I^{-}$        |              |                                       |  |  |  |
|                           | DE            | 4,272,577                 | 06/09/81   | Lyng   | 1              |              |                                       |  |  |  |
|                           | DF            | 4,273,688                 | 06/16/81   | Porzel et al.  | <u> </u>       |              | ·                                     |  |  |  |
|                           | DG            | 4,303,019                 | 12/01/81   | Haataja et al.   | $\overline{1}$ |              | ·.                                    |  |  |  |
|                           | DH            | 4,305,901                 |  | Prince et al.  |                |              |                                       |  |  |  |
|                           | DI            | 4,317,765                 |  | Gaylord  |                |              |                                       |  |  |  |
|                           | DJ            | 4,323,625                 |  | Coran et al.   | 1.             |              | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |  |  |  |
| <del>-</del>              | DK            | 4,376,144                 | 03/08/83   |  | 1              |              |                                       |  |  |  |
|                           |               | 4,382,758                 |  | Nopper et al.  |                | ٠.           |                                       |  |  |  |
|                           | DM            | 4,414,267                 |  | Coran et al.   |                |              | ٠.                                    |  |  |  |
|                           |               | 4,420,351                 |  | Lussi et al.   |                |              |                                       |  |  |  |
|                           |               | <del></del>               |  | PREIGN PATENT DOCUMENTS  |                |              |                                       |  |  |  |
| ·                         |               | DOCUMENT<br>NUMBER        | DATE   | COUNTRY  |                | YES          | TRANSLATION<br>S NO                   |  |  |  |
|                           | DO            |                           | t  |  |                |              |                                       |  |  |  |
|                           | DP.           |                           |  |  |                | <u> </u>     |                                       |  |  |  |
|                           | DQ            |                           |  |  |                |              |                                       |  |  |  |
|                           | DR            |                           | <u> </u>   |  |                |              |                                       |  |  |  |
|                           | DS            |                           | <del>                                     </del> |  |                |              |                                       |  |  |  |
|                           | DT            |                           | <del>                                     </del> |  |                |              |                                       |  |  |  |
| <u> </u>                  | DU            | 1                         |  |  |                |              |                                       |  |  |  |
|                           | DV            |                           | <del>                                     </del> |  | <u> </u>       |              |                                       |  |  |  |
|                           |               | OTHER RFF                 | ERENCES  | (Including Author, Title, Date, Pertine  | nt Pages.      | etc.)        |                                       |  |  |  |
|                           | DW            | Laurent M. Matuana et a   | al "Effect of                                    | Cell Morphology on the Properties of Nular Materials, MD-Vol. 76, ASME 1996    | /licrocellular |              | <u>.</u>                              |  |  |  |
|                           | DX            |                           |  |  |                |              |                                       |  |  |  |
|                           | DY            |                           |  |  |                |              |                                       |  |  |  |
|                           | DZ            |                           | · · · · · · · · · · · · · · · · · · ·            |  |                |              |                                       |  |  |  |
| Examiner                  | <u> </u>      |                           |  |  | Date Co        | onsidered    |                                       |  |  |  |
| *Examiner: In conformance | itial if r    | eference is considered, w | hether or no                                     | ot citation is in conformance with MPEP m with next communication to applicant | 609; Draw      | lin throug   | h citation if not in                  |  |  |  |

| Form PTO 1449<br>Modified)             | U.S. DEPARTMENT OF COMMERCA<br>PATENT AND TRADEMARK OFFICE |                           |                | ATTY DOCKET NO.<br>247860US55CONT       |            | SERIAL NO    | SERIAL NO.<br>NEW U.S. APPL. :         |                       |  |  |
|--|--|---------------------------|----------------|---|------------|--------------|--|-----------------------|--|--|
| LIST OF F                              | REFER  | ENCES CITED BY APPL       | ICANT          | APPLICANT STUCI                         | KY David   | et al.       |  | · .                   |  |  |
|  |  | . *                       |                | FILING DATE  Herewith                   |            | GROUP        | .,                                     |                       |  |  |
|  |  |                           | · (            | J.S. PATENT DOCUMENTS                   |            | • .          |  |                       |  |  |
| EXAMINER INITIAL                       |  | DOCUMENT<br>NUMBER        | DATE           | NAME                                    | CLASS      | SUB<br>CLASS |  | ING DATE<br>PROPRIATE |  |  |
| <u> </u>                               | EA   | 4,430,468                 | 02/07/84       | Schumacher                              |            |              |  | · .                   |  |  |
|  | EB   | 2,635,976                 | 04/21/53       | Meiler et al.                           |            |              |  | · .                   |  |  |
|  | EC   | 2,680,102                 | 06/01/54       | Becher et al.                           |            |              |  | •., •.                |  |  |
|  | ED   | 2,789,903                 | 04/23/57       | Lukman et al.                           |            |              |  |                       |  |  |
|  | EE   | 2,926,729                 | 03/01/60       | Zanini                                  |            |              |  | ٠                     |  |  |
|  | EF   | 3,147,518                 | 09/08/64       | Horgan                                  |            |              |  | ٠.                    |  |  |
| ·····                                  | EG   | 3,308,218                 | 03/07/67       | Wiegand et al.                          |            |              |  |                       |  |  |
| <del></del> -                          | EH   | 3,309,444                 | 03/14/67       | Schueler                                |            |              |  |                       |  |  |
|  | EI   | 3,349,538                 | 10/31/67       | Crossman                                |            |              |  | <u> </u>              |  |  |
|  | EJ   | 3,492,388                 | 01/27/70       | Inglin-Knüsel                           |            |              | ** ***                                 |                       |  |  |
|  | EK   | 3,493,527                 | 02/03/70       | Schueler                                |            |              | 1, 1,                                  |                       |  |  |
|  | EL   | 3,671,615                 | 06/20/72       | Price                                   | 1,1        |              | 1.                                     |                       |  |  |
|  | EM   | 3,844,084                 | 10/29/74       | Hubbard et al.                          |            |              |  |                       |  |  |
|  | EN   | 3,899,559                 | 08/12/75       | Johnanson et al.                        |            |              |  |                       |  |  |
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|                             |           | 3,904,726  |   | Jacquelin et al.         |                                       |              |              |                    |   |          |
|                             |           | 3,931,384  |   | Forquer et al.           | ·                                     |              |              |                    |   |          |
| ,                           | FC        | 3,956,555  |   | McKean                   |                                       | <b></b> _    | <u> </u>     |                    |   |          |
|                             | FD        | 3,969,459  |   | Fremont et al.           |                                       | <del> </del> |              |                    |   |          |
|                             | FE        | 4,005,162  | 01/25/77  | Bucking                  |                                       |              |              |                    |   |          |
|                             | FF        | 4,033,913  | 07/05/77  | Sundén                   |                                       | ļ            | <u> </u>     |                    |   |          |
|                             | FG        | 4,058,580  | 11/15/77  | Flanders                 |                                       | <b></b>      | <u> </u>     |                    |   |          |
|                             | FH        | 4,115,497  | 09/19/78  | Halmø et al.             |                                       | <u> </u>     |              |                    |   |          |
|                             | FI        | 4,248,820  | 02/03/81  | Haataja                  |                                       |              | <b>1</b>     |                    |   |          |
|                             | ·FJ       | 4,277,428  | 07/07/81  | Luck et al.              |                                       |              |              | arter g            | • | 1 500 41 |
|                             | FK        | 4,281,039  | 07/28/81  | Miura et al.             |                                       |              |              |                    |   |          |
|                             | FL        | 4,426,470  | 01/17/84  | Wessling et al.          |                                       |              |              |                    |   |          |
| : :                         | FM        | 4,440,708  | 04/03/84  | Haataja et al.           |                                       |              |              |                    |   | į        |
|                             | FN        | 4,506,037  | 03/19/85  | Suzuki et al.            |                                       |              |              |                    |   |          |
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| INITIAL                     | GA         | NUMBER<br>4,455,709       | 06/26/84     | Zanini                                  | <del></del>                                      | 1  |  |                                       |  |  |
|                             | GB         | 4,290,988                 |              | Nopper et al.                           |  | 1  |  | ·                                     |  |  |
|                             | GC         | 4,311,554                 | 01/19/82     |   | - ·  | <b>-</b>   |  |                                       |  |  |
|                             | GD         | 4,311,621                 |              | Nishizawa et al.                        | -  |  |  |                                       |  |  |
|                             | GE         | 4,328,136                 | 05/04/82     |   | <del></del>                                      | †  |  | :                                     |  |  |
|                             | GF         | 4,382,108                 |              | Carroll et al.                          | <del>                                     </del> | <u> </u>   | -  | :                                     |  |  |
|                             | GG         | 4,393,020                 | 07/12/83     |   | <del></del>                                      |  |  |                                       |  |  |
|                             | GH         | 4,454,091                 |              | Chion et al.                            |  |  |  |                                       |  |  |
|                             | GI         | 4,481,701                 | 11/13/84     |   | <del></del>                                      |  |  |                                       |  |  |
|                             | GJ         | 4,503,115                 | 03/05/85     | Hemels et al.                           |  |  | : ::   |                                       |  |  |
|                             | GK         | 4,508,595                 | 04/02/85     | Gasland                                 | <del></del>                                      | 1  | : :  |                                       |  |  |
|                             | GL         | 4,551,294                 |              | Wottka et al.                           | 1  |  | :  |                                       |  |  |
|                             | GM         | 4,562,218                 |              | Fornadel et al.                         |  | <del>                                     </del> |  |                                       |  |  |
|                             | GN         | 4,594,372                 |              | Natov et al.                            |  | 1  |  |                                       |  |  |
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|                  | HA        | 4,597,928                  | 07/01/86      | Terentiev et al.  |   |  |   |
|                  | НВ        | 4,610,900                  | 09/09/86      | Nishibori   |   |  |   |
|                  | НС        | 4,619,097                  | 10/28/86      | Trummer et al.  |   |  |   |
|                  | HD        | 4,645,631                  | 02/24/87      | Hegenstaller et al.   |   |  |   |
|                  | HE        | 4,659,754                  | 04/21/87      | Edwards et al.  |   |  |   |
|                  | HF        | 4,663,225                  | 05/05/87      | Farley et al.   | . <u>.                                   </u> |  | <u> </u>                                      |
|                  | HG        | 4,686,251                  | 08/11/87      | Ostermann et al.  |   |  | •   |
|                  | нн        | 4,687,793                  | 08/18/87      | Motegi et al.   |   |  |   |
|                  | HI        | 4,716,062                  | 12/29/87      | Klein   |   |  |   |
|                  | . HJ      | 4,734,236                  | 03/29/88      | Davis   |   |  | e granden g                                   |
|                  | нк        | 4,737,532                  | 04/12/88      | Fujita et al.   |   |  |   |
| `                | HL        | 4,769,109                  | 09/06/88      | Tellvik et al.  |   |  |   |
|                  | НМ        | 4,769,274                  | 09/06/88      | Tellvik et al.  |   |  |   |
|                  | HN        | 4,774,272                  | 09/27/88      | Lamphere et al.   |   |  |   |
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|                             | IA   | 4,790,966  | 12/13/88     | Sandberg et al.  |                             |              |                               |
|                             | IB   | 4,818,604  | 04/04/89     | Tock   |                             |              |                               |
|                             | IC   | 4,820,763  | 04/11/89     | Yang   |                             |              |                               |
|                             | ID   | 2,489,373  | 11/29/49     | Petri  |                             |              |                               |
|                             | ΙE   | 4,652,218  | 03/24/87     | Tsutsui et al.   |                             |              | · ·                           |
|                             | IF   | 4,717,742  | 01/05/88     | Beshay   |                             |              | · ·                           |
|                             | IG   | 4,783,493  | 11/08/88     | Motegi   | ٠.                          |              |                               |
|                             | IH   | 4,789,604  | 12/06/88     | van der Hoeven   |                             |              |                               |
|                             | li   | 4,791,020  | 12/13/88     | Kokta  |                             |              |                               |
|                             | IJ   | 4,801,495  | 01/31/89     | van der Hoeven   |                             |              |                               |
|                             | IK   | 4,820,749  | 04/11/89     | Beshay   |                             |              |                               |
|                             | IL   | 4,851,458  | 07/25/89     | Hopperdietzel  | ,                           |              | :                             |
|                             | IM   | 4,865,778  | 09/12/89     | Davis  |                             | •            | ·                             |
|                             | IN   | 4,889,673  | 12/26/89     | Takimoto   |                             |              |                               |
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| • • • •  | JA    | 4,892,774            | 01/01/90    | Vailance                               |             | 1             |   |  |  |  |
|  | JB    | 4,894,192            | 01/16/90    | Warych .                               |             |               |   |  |  |  |
|  | JC    | 4,915,764            | 04/10/90    | Miani                                  | 1           | 1 7           |   |  |  |  |
|  | JD    | 4,927,572            | 05/22/90    | van der Hoeven                         | 1           |               |   |  |  |  |
|  | JE    | 4,927,579            | 05/22/90    | Moore                                  |             |               | ·   |  |  |  |
|  | JF    | 4,929,688            | 05/29/90    | Agren et al.                           | 1.          | 1             |   |  |  |  |
|  | JG    | 4,935,182            | 06/19/90    | Ehner et al.                           | 1           |               | · .   |  |  |  |
|  | JH    | 4,960,548            | 10/02/90    | Ikeda et al.                           | 1           | 1             |   |  |  |  |
|  | JI    | 4,968,463            | 11/06/90    | Levasseur                              |             | 1             |   |  |  |  |
| · ·.   | IJ    | 4,973,440            | 11/27/90    | Tamura et al.                          |             |               |   |  |  |  |
|  | JK    | 4,978,489            | 12/18/90    | Radvan et al.                          |             |               |   |  |  |  |
| <del></del>  | JL    | 4,978,575            | 12/18/90    | Ziess                                  |             |               |   |  |  |  |
|  | JM    | 4,988,478            | 01/29/91    | Held                                   |             | ·             |   |  |  |  |
|  | JN    | 5,002,713            | 03/26/91    | Palardy et al.                         |             |               |   |  |  |  |
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| EXAMINER<br>INITIAL         |            | DOCUMENT<br>NUMBER                   | DATE                                  |                          | NAME             |  | CLASS    | SUB<br>CLASS              |                               | PPROPRIATE  | <b>■</b> |
|                             | КА         | 5,008,310                            | 04/16/91                              | Beshay                   |                  |  |          |                           |                               | ·.          |          |
|                             | КВ         | 5,009,586                            | 04/23/91                              | Pallmann                 |                  |  |          |                           |                               |             |          |
|                             | КС         | 5,021,490                            | 06/04/91                              | Vyvoda et al.            |                  |  | ٠.       |                           |                               |             |          |
|                             | KD         | 5,049,334                            | 09/17/91                              | Bach                     |                  |  |          |                           |                               |             |          |
|                             | KE         | 5,057,167                            | 10/15/91                              | Gersbeck                 |                  |  |          |                           |                               | ·           |          |
|                             | KF         | 5,064,592                            | 11/12/91                              | Ueda et al.              |                  |  |          |                           |                               |             |          |
|                             | KG         | 5,075,057                            | 12/24/91                              | Hoedl .                  |                  |  |          |                           |                               |             |          |
|                             | КН         | 5,078,937                            | 01/07/92                              | Eela                     | `                |  |          |                           |                               |             |          |
|                             | КІ         | 5,082,605                            | 01/21/92                              | Brooks et al.            |                  |  |          |                           |                               |             |          |
|                             | KJ         | 5,087,400                            | 02/11/92                              | Theuveny                 |                  |  |          |                           |                               |             |          |
|                             | кк         | 5,088,910                            | 02/18/92                              | Goforth et al.           |                  |  |          |                           | · · ·                         |             |          |
|                             | KL         | 5,093,058                            | 03/03/92                              | Harmon et al.            |                  |  | 1,1      |                           | ٠                             | •           |          |
|                             | КМ         | 5,096,046                            | 03/17/92                              | Goforth et al.           |                  |  |          |                           |                               |             |          |
|                             | KN         | 5,096,406                            | 03/17/92                              | Brooks et al.            |                  | ·  |          |                           |                               |             |          |
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| 4 T 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | LA          | 5,120,776                 | 06/09/92     | Raj et al.  |               |              |                               |
|   | LB          | 5,153,241                 | 10/06/92     | Beshay  |               |              |                               |
|   | LC          | 5,164,267                 | 11/17/92     | D'Heur et al.   | ]             |              |                               |
|   | LD          | 5,194,461                 | 03/16/93     | Bergquist et al.  |               |              |                               |
|   | LE          | 5,272,000                 | 12/21/93     | Chenoweth et al.  |               |              |                               |
|   | LF          | 5,276,082                 | 01/04/94     | Forry et al.  |               |              |                               |
|   | LG          | 5,288,772                 | 02/22/94     | Hon   |               |              |                               |
|   | LH          | 5,302,634                 | 04/12/94     | Mushovic  |               |              |                               |
|   | LI          | 5,369,147                 | 11/29/94     | Mushovic  |               |              |                               |
|   | LJ          | 5,406,768                 | 04/18/95     | Giuseppe et al.   |               |              |                               |
|   | LK          | 5,474,722                 | 12/12/95     | Woodhams  |               | ·            |                               |
|   | LL          | 5,480,602                 | 01/02/96     | Nagaich   |               |              |                               |
|   | LM          | 5,486,553                 | 01/23/96     | Deaner et al.   |               |              | :                             |
|   | LN          | 5,508,103                 | 04/16/96     | Cope  |               |              |                               |
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| EXAMINER INITIAL            |            | DOCUMENT<br>NUMBER                     | DATE                    | NAME                              |              | CLASS    | SUB<br>CLASS                 |                 |               |  |
|                             | MA         | 5,532,065                              | 07/02/96                | Gübitz et al.                     |              |          |                              |                 |               |  |
|                             | МВ         | 5,576,374                              | 11/19/96                | Betso et al.                      |              |          |                              |                 |               |  |
|                             | МС         | 5,593,625                              | 01/14/97                | Riebel et al.                     |              |          |                              |                 |               |  |
|                             | MD         | 5,635,125                              | 06/03/97                | Ternes et al.                     |              |          |                              |                 |               |  |
|                             | ME         | 5,654,091                              | 08/05/97                | Kiriazis et al.                   |              |          |                              |                 | ·             |  |
|                             | MF         | 4,273,688                              | 06/16/81                | Porzel et al.                     |              |          |                              |                 |               |  |
|                             | MG         | 4,303,019                              | 12/01/81                | Haataja et al.                    |              | ·        |                              |                 |               |  |
|                             | мн         | 4,305,901                              | 12/15/81                | Prince et al.                     |              |          |                              |                 |               |  |
|                             | МІ         | 4,317,765                              | 03/02/82                | Gaylord                           |              |          |                              |                 |               |  |
|                             | MJ         | 4,323,625                              | 04/06/82                | Coran et al.                      |              |          |                              |                 |               |  |
|                             | MK         | 4,376,144                              | 03/08/83                | Goettler                          |              |          |                              | 3.3             |               |  |
|                             | ML         | 4,382,758                              | 05/10/83                | Nopper et al.                     |              |          |                              |                 |               |  |
|                             | ММ         | 4,414,267                              | 11/08/83                | Coran et al.                      |              |          |                              |                 |               |  |
|                             | MN         | 4,420,351                              | 12/13/83                | Lussi et al.                      |              | <u> </u> | <u> </u>                     |                 |               |  |
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| EXAMINER<br>INITIAL |       | DOCUMENT<br>NUMBER                    | DATE   | NAME                                    | CLASS       | SUB<br>CLASS                                     | FILING DATE<br>IF APPROPRIATE |
|                     | NA    | 5,102,922                             | 04/92  | Kimura et al.                           | ·           |  | ·                             |
|                     | NB    | 3,983,295                             | 09/28/76   | Murer et al.                            |             |  |                               |
| ٠,                  | NC    | 5,461,839                             | 10/31/95   | Beck                                    |             |  | ·1                            |
|                     | ND    | 5,391,585                             | 02/21/95   | Grohman                                 |             |  |                               |
|                     | NE    | 5,486,553                             | 01/23/96   | Deaner et al.                           |             |  |                               |
| -                   | NF    | 5,088,910                             | 02/18/92   | Goforth et al.                          |             |  |                               |
|                     | NG    | 5,332,602                             | 07/26/94   | Barré et al.                            |             | Ī .  |                               |
|                     | NH    | 5,406,768                             | 04/18/95   | Giuseppe et al.                         |             |  |                               |
|                     | NI    | 4,505,869                             |  | Nishibori                               |             |  |                               |
|                     | NJ    | 4,480,061                             | <del>                                     </del> | Coughlin et al.                         |             |  |                               |
| , ,                 | NK    | 3,888,810                             |  | Shinomura                               |             | 1  |                               |
|                     | NL    | 5,565,056                             | <del> </del>                                     | Lause et al.                            |             | <del>                                     </del> |                               |
|                     | NM    | 5,506,031                             |  | Spain et al.                            | -           |  | :                             |
|                     | NN    | 5,441,816                             | <del> </del>                                     | Grohman                                 | <del></del> | -  |                               |
|                     | 1     | 0,441,010                             | l  | <u> </u>                                | I           | <u> </u>   | · ·                           |
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| EXAMINER INITIAL            |            | DOCUMENT<br>NUMBER                           | DATE                 | NAME                                   | CLASS       | SUB<br>CLASS | FILING DATE<br>IF APPROPRIATE |
|                             | OA         | 5,271,699                                    | 12/21/93             | Barré et al.                           |             | <u> </u>     |                               |
|                             | ОВ         | 5,224,318                                    | 07/06/93             | Kemerer                                |             | $oxed{L}$    | <u> </u>                      |
|                             | ОС         | 5,422,399                                    | 06/06/95             | Cozens et al.                          |             |              |                               |
|                             | OD         | 5,087,669                                    | 02/11/92             | Prejean                                |             |              |                               |
|                             | OE         | 5,346,954                                    | 09/13/94             | Wu et al.                              |             |              |                               |
|                             | OF         | 5,516,472                                    | 05/14/96             | Laver                                  |             |              |                               |
|                             | OG         | 5,497,594                                    | 03/12/96             | Giuseppe et al.                        |             |              |                               |
|                             | ОН         | 5,585,155                                    | 12/17/96             | Heikkila et al.                        |             |              |                               |
|                             | OI         | 5,441,801                                    | 08/15/95             | Deaner et al.                          |             |              |                               |
|                             | Oi         | 5,539,027                                    | 07/23/96             | Deaner et al.                          |             |              |                               |
|                             | ок         | 5,439,749                                    | 08/08/95             | Klasell et al.                         |             | <u>.</u>     | <u> </u>                      |
|                             | OL         | 5,518,677                                    | 05/21/96             | Deaner et al.                          |             |              | ·                             |
|                             | ОМ         | 5,997,784                                    | 12/07/99             | Kamoski                                | :           |              | <u></u>                       |
|                             | ON         | 4,187,352                                    | 02/80/83             | Klobbie                                |             | <u> </u>     |                               |
|                             |            |  | FC                   | REIGN PATENT DOCUMENTS                 |             |              |                               |
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|                             | PA           | 3,764,642                               | 10/09/73                | Boutillier  |            |              |                               |
|                             | РВ           | 3,879,505                               | 04/22/75                | Boutillier et al.   |            |              |                               |
|                             | PC           | 3,903,023                               | 09/02/75                | Boutillier et al.   |            |              |                               |
|                             | PD           | 3,937,777                               | 02/10/76                | Wienand et al.  |            |              |                               |
|                             | PE           | 3,978,632                               | 09/07/76                | Ansted  |            |              |                               |
|                             | PF           | 4,028,449                               | 06/07/77                | Kakitani et al.   |            |              |                               |
|                             | PG           | 4,031,045                               | 06/21/77                | Goswami   |            |              | •                             |
|                             | PH           | 4,234,641                               | 11/18/80                | Thompson et al.   |            |              |                               |
|                             | PI           | 4,473,665                               | 09/25/84                | Martini-Vvedensky et al.  |            |              |                               |
|                             | ₽J           | 4,510,201                               | 04/09/85                | Takeuchi et al.   |            | i            |                               |
| :                           | PK           | 4,948,655                               | 08/14/90                | Danese  |            |              |                               |
|                             | PL           | 4,956,234                               | 09/11/90                | Morales   |            | 5.           |                               |
|                             | РМ           | 5,102,922                               | 04/07/92                | Kimura et al.   |            |              | :                             |
|                             | PN           | 5,245,141                               | 09/14/93                | Fortez et al.   |            |              |                               |
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| <br>                        | QA        | 5,300,533   | 04/05/94                              | Dahl et ai.  | <u> </u>     |                | * 1                           |
|                             | QB        | 5,334,622   | 08/02/94                              | Bergvist   |              |                |                               |
|                             | QC        | 5,363,611   | 11/15/94                              | Richardson et al.  |              |                |                               |
|                             | QD        | 5,406,768   | 04/18/95                              | Giuseppe et al.  | 1            |                |                               |
|                             | QE        | 5,539,027   | 07/23/96                              | Deaner et al.  |              |                | · · ·                         |
|                             | QF        | 5,847,016   | 12/08/98                              | Cope   |              |                |                               |
|                             | QG        | 6,054,207   | 04/25/00                              | Finley   | <del> </del> |                |                               |
|                             | QH        | 4,929,409   | 05/29/90                              | Agren et al.   | <del></del>  | <del></del>    | <del></del>                   |
|                             | QI        | 5,075,359   | 12/24/91                              | Hoedl  | <del></del>  |                |                               |
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|                           | AA                   | 5,497,594   | 3/12/96                          | GIUSEPPE, et al.  |                 | 1            |                                       |  |
|                           | 'AB                  | 4,185,416   | 1/29/80                          | WILMES .  | · ·             |              |                                       |  |
|                           | AC                   | 4,726,147   | 2/23/88                          | BESKE, et al.   |                 | 1. 1         |                                       |  |
|                           | AD                   | 4,237,664   | 12/9/80                          | WILMES  | † · · · · · · · |              |                                       |  |
|                           | ΑE                   | 4,693,043   | 9/15/87                          | KNAPP   |                 |              |                                       |  |
|                           | AF                   | 4,566,831   | 1/28/86                          | GROTH   |                 |              |                                       |  |
|                           | AG                   | 4,528,788   | 7/16/85                          | YACKIW, et al.  | <u> </u>        |              |                                       |  |
|                           | АН                   | 4,154,033   | 5/15/79                          | KRUEGER, et al.   |                 |              |                                       |  |
|                           | . Al                 | 5,199,234   | 4/6/93                           | GUHL  |                 | 1            | :                                     |  |
|                           | AJ                   | 4,976,066   | 12/11/90                         | PLUMMER, et al.   | <b></b>         |              |                                       |  |
|                           | AK                   | 4,958,469   | 9/25/90                          | PLUMMER   |                 |              |                                       |  |
|                           | AL                   | 5,150,983   | 9/29/92                          | BOGENHAGEN  |                 |              |                                       |  |
|                           | AM                   | 5,097,629   | 3/24/92                          | GUHL, et al.  |                 |              | _                                     |  |
|                           | AN                   | 5,092,640   | 3/3/92                           | PLUMMER   | <b></b>         |              | · · · · · · · · · · · · · · · · · · · |  |
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|                     | AA       | 5,086,601                | 2/11/92       | GALOWITZ, et al.                          |  |              |          |                          |
|                     | AB       | 5,010,708                | 4/30/91       | EVANS, et al.                             |  |              |          |                          |
|                     | AC       | 4,999,950                | 3/19/91       | BESKE, et al.                             |  | ,            |          |                          |
|                     | AD ·     | 4,780,998                | 11/1/88       | KNAPP                                     |  |              |          |                          |
|                     | AE       | 5,548,698                | 8/20/96       | SMITH, et al.                             |  |              |          |                          |
|                     | AF       | 5,205,102                | 4/27/93       | PLUMMER                                   |  |              |          |                          |
|                     | AG       | 5,217,264                | 6/8/93        | FIER                                      |  |              |          |                          |
|                     | AH       | 5,301,467                | 4/12/94       | SCHMIDT, et al.                           |  |              |          |                          |
|                     | Al       | 5,243,783                | 9/14/93       | SCHMiDT, et al.                           |  |              |          |                          |
|                     | 2        | 5,435,866                | 7/25/95       | PUPPIN                                    |  |              |          |                          |
|                     | AK       | 5,406,768                | 4/18/95       | GIUSEPPE, et al.                          |  |              |          |                          |
|                     | AL       | 5,355,644                | 10/18/94      | GUHL, et al.                              |  |              |          |                          |
|                     | AM       | 5,332,204                | 7/26/94       | PUPPIN                                    |  |              |          |                          |
|                     | AN       | 5,554,450                | 8/13/96       | SCHMIDT, et al.                           |  |              |          |                          |
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|                           | AA         | 5,491,940  | 2/20/96                               | BRUCHU  |             |                |                               |  |  |
|                           | AB         | 5,486,553  | 1/23/96                               | DEANER, et al.  | ·           |                | · ·                           |  |  |
|                           | AC         | 5,467,564  | 11/21/95                              | DeKYSER, et al.   |             |                |                               |  |  |
|                           | AD         | 5,441,801  | 8/15/95                               | DEANER, et al.  | <u> </u>    |                |                               |  |  |
|                           | ΑE         | 5,439,749  | 8/8/95                                | KLASELL, et al.   |             |                |                               |  |  |
|                           | AF         | 5,205,074  | 4/27/93                               | GUHL, et al.  |             |                |                               |  |  |
|                           | AG         | 5,981,067  | 11/9/99                               | SEETHAMRAJU, et al.   |             |                |                               |  |  |
|                           | AH         | 5,566,507  | 10/22/96                              | SCHMIDT, et al.   |             |                |                               |  |  |
|                           | · Al       | 5,585,155  | 12/17/96                              | HEIKKILA, et al.  |             |                |                               |  |  |
|                           | AJ         | 5,584,016  | 12/10/96                              | VARGHESE, et al.  | •           |                |                               |  |  |
|                           | AK         | 5,582,445  | 12/10/96                              | OLSEN, et al.   |             |                |                               |  |  |
|                           | ΑĻ         | 5,570,292  | 10/29/96                              | ABRAHAM, et al.   | Ì           |                |                               |  |  |
|                           | AM         | 5,773,138  | 6/30/98                               | SEETHAMRAJU, et al.   |             |                |                               |  |  |
|                           | AN         | 5,740,632  | 4/21/98                               | PETERSON, et al.  |             |                | ·                             |  |  |
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| AC   5.697.519  |                           | AA                   | 5,695,874   | 12/9/97                         | DEANER, et al.  | ĺ            |             |                                       |  |  |
| AD   5,882,713  |                           | AB                   | 5,687,533   | 11/18/97                        | BRUCHU  | · .          |             |                                       |  |  |
| AE   5,666,773   9/16/97   LIBRANDE, et al.   |                           | AC                   | 5,687,519   | 11/18/97                        | BRUCHU  |              |             |                                       |  |  |
| AF   5,557,579   8/19/97   BRUCHU, et al.   |                           | AD                   | 5,682,713   | 11/4/97                         | WEISS   | i            |             |                                       |  |  |
| AG   5,823,784   4/29/97   NUERSTEN, et al.   |                           | AE                   | 5,666,773   | 9/16/97                         | LIBRANDE, et al.  | Ī            |             |                                       |  |  |
| AH 5,622,017 4/22/97 LYNN, et al.  AI 5,603,885 2/18/97 BRUCHU, et al.  AJ 5,555,684 9/17/96 CALOWITZ, et al.  AK 5,985,874 10/12/99 ASO, et al.  AL 5,948,524 9/7/99 EETHAMRAJU, et al.  AM 5,948,505 9/7/99 PUPPIN  AN 5,932,334 9/3/99 DEANER, et al.  FOREIGN PATENT DOCUMENTS     DOCUMENT NUMBER   DATE   COUNTRY   TRANSLATION YES NO  |                           | AF                   | 5,657,579   | 8/19/97                         | BRUCHU, et al.  |              |             | <del>-</del> . , .                    |  |  |
| Ai   5,603,585   2/18/97   BRUCHU, et al.   |                           | AG                   | 5,623,784   | 4/29/97                         | KUERSTEN, et al.  |              |             | · · · · · · · · · · · · · · · · · · · |  |  |
| AJ   5.55,684   9/17/96   GALOWITZ, et al.  |                           | АН                   | 5,622,017   | 4/22/97                         | LYNN, et al.  | <del> </del> |             |                                       |  |  |
| AK   5,965,874   10/12/99   ASO, et al.   | ·                         | Al.                  | 5,603,585   | 2/18/97                         | BRUCHU, et al.  |              |             |                                       |  |  |
| AL   5,948,524   97/99   SEETHAMRAJU, et al.  |                           | AJ                   | 5,555,684   | 9/17/96                         | GALOWITZ, et al.  | -            | İ           |                                       |  |  |
| AM   5,948,505   97/99   PUPPIN   |                           | AK                   | 5,965,874   | 10/12/99                        | ASO, et al.   | *,/          |             |                                       |  |  |
| AN   5,932,334   8/3/99   DEANER, et al.  |                           | AL                   | 5,948,524   | 9/7/99                          | SEETHAMRAJU, et al.   |              |             |                                       |  |  |
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|  | AA         | 5,902,657   | 5/11/99                         | HANSON, et al.   |             |                                       |                               |
|  | AB         | 5,882,564   | 3/16/99                         | PUPPIN   | ·           |                                       |                               |
| ,  | AC         | 5,837,095   | 11/17/98                        | BRUCHU, et al.   |             |                                       |                               |
|  | AD         | 5,822,931   | 10/20/98                        | GALOWITZ, et al.   |             |                                       | -                             |
|  | AE         | 5,787,657   | 8/4/98                          | LIBRANDE, et al.   |             |                                       |                               |
|  | AF         | 5,779,384   | 7/14/98                         | OLSEN  |             |                                       |                               |
|  | AG         | 5,775,749   | 7/7/98                          | REITHMEYER, et al.   |             |                                       |                               |
|  | ΑH         | 5,827,607   | 10/27/98                        | DEANER, et al.   |             |                                       | ·                             |
|  | Al         | 6,280,667 B1  | 8/28/01                         | KOENIG, et al.   |             |                                       | •                             |
|  | Ş          | 5,540,019   | 7/30/96                         | BESKE, et al.  |             | <u> </u>                              |                               |
|  | AK         | 6,357,197 B1  | 3/19/02                         | SERINO, et al.   |             |                                       |                               |
|  | AL.        | 5,948,505   | 9/7/99                          | PUPPIN   |             |                                       |                               |
|  | АМ         | 5,932,334   | 8/3/99                          | DEANER, et al.   |             |                                       |                               |
|  | AN         | 5,539,027   | 7/23/96                         | DEANER, et al.   |             |                                       |                               |
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|               | AA        | 5,882,564                             | 3/16/99  | PUPPIN   |           |              |                           |  |
|               | AB        | 6,265,037                             | 7/24/01  | GODAVARTI, et al.                                  |           |              |                           |  |
|               | AC        | 6,210,792 B1                          | 4/3/01   | SEETHAMRAJU, et al.                                |           |              |                           |  |
|               | AD        | 6,122,877                             | 9/26/00  | HENDRICKSON, et al.                                |           |              |                           |  |
|               | ΑE        | 6,112,463                             | 9/5/00   | REITHMEYER, et al.                                 |           |              |                           |  |
|               | AF        | 6,055,783                             | 5/2/00   | GUHL, et al.                                       |           |              |                           |  |
|               | AG        | 6,054,207                             | 4/25/00  | FINLEY   |           |              | <u> </u>                  |  |
|               | АН        | 6,015,612                             | 1/18/00  | DEANER, et al.                                     |           |              |                           |  |
|               | · Al      | 6,007,656                             | 12/28/99   | HEIKKILA, et al.                                   |           |              |                           |  |
|               | AJ        | 6,004,668                             | 12/21/99   | DEANER, et al.                                     |           |              |                           |  |
|               | AK        | 5,985,429                             | 11/16/99   | PLUMMER, et al.                                    |           |              |                           |  |
|               | AL        | 5,981,067                             | 11/9/99  | SEETHAMRAJU, et al.                                |           |              |                           |  |
|               | AM        | 5,965,874                             | 10/12/99   | ASO, et al.  | 1         |              |                           |  |
|               | AN        | 5,518,677                             | 5/21/96  | DEANER, et al.                                     |           |              |                           |  |
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|                           | AB         | 5,837,095   | 11/17/98   | BRUCHU, et al.   | <del> </del>                                     |  |   |
|                           | AC         | 6,342,172 B1  | 1/29/02  | FINLEY   | <del> </del>                                     |  |   |
|                           | AD         | 0,042,172.01  | 1720.02  |  | <del> </del>                                     |  |   |
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| EXAMINER INITIAL |             | DOCUMENT<br>NUMBER      | DATE            | NAME                                     | CLASS         | SUB-<br>CLASS                                    | FILING DATE IF APPROPRIATE |  |  |
|                  | ĀĀ          | 5,082,605               | 1/92            | Brooks, et al.                           | 1             | 1  |                            |  |  |
|                  | АВ          | 5,088,910               | 2/92            | Goforth, et al.                          | · ·           |  |                            |  |  |
|                  | AC          | 5,406,768               | 4/95            | Giuseppe, et al.                         |               |  |                            |  |  |
|                  | AD          | 5,847,016               | 12/98           | Cope                                     |               |  |                            |  |  |
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|                  |             | OTHER I                 | REFERENCES      | (Including Author, Title, Date, Pertine  | ent Pages,    | etc.)  |                            |  |  |
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| Examiner .       | .—          |                         |                 |  | Date C        | onsidered  |                            |  |  |
| *Examiner        | Initial if  | refer nce is considere  | d, whether or r | not citation is in conformance with MPEP | <br>609; Draw | line throug                                      | h citation if not in       |  |  |
| conformanc       | e and r     | not considered. Include | copy or this to | rm with next communication to applicant  |               |  |                            |  |  |